

FIG. 1

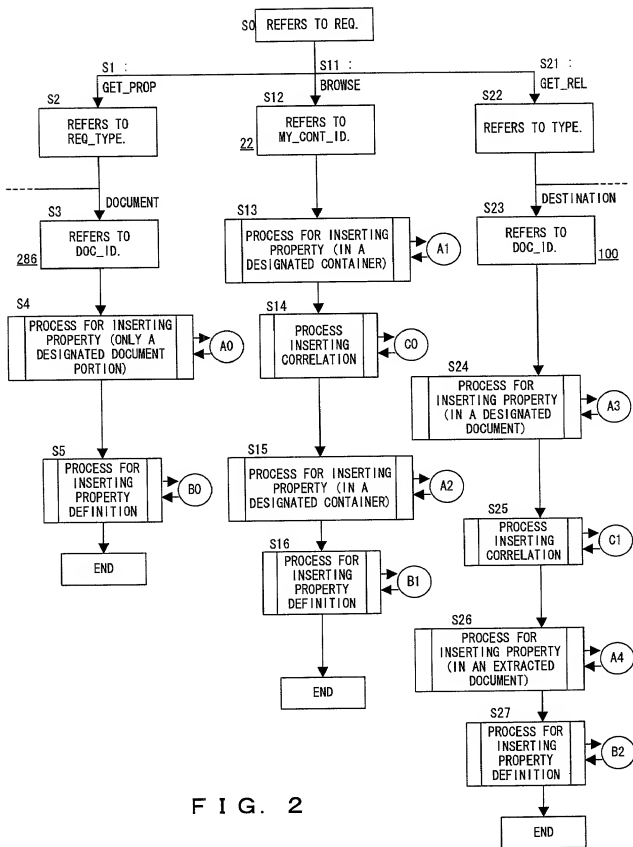


FIG. 2

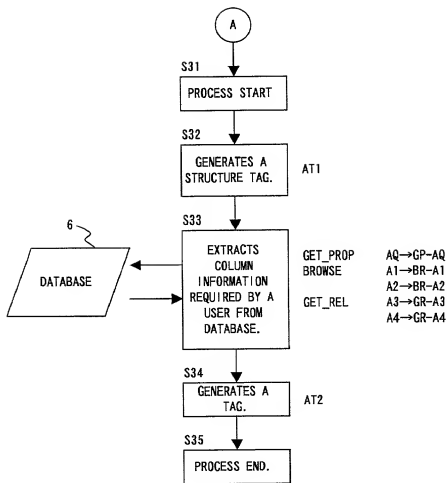


FIG. 3

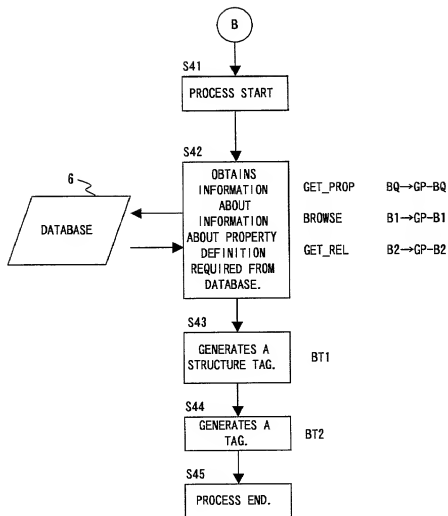


FIG. 4

```

graph TD
    C((C)) --> S51[PROCESS START]
    S51 --> S52[GENERATES A STRUCTURE TAG REQUIRED TO INDICATE CORRELATION.]
    S52 --- CT1[CT1]
    S52 --> S53[EXTRACTS INFORMATION ABOUT CORRELATION]
    S53 --- BR[BROWSE  
GET_REL]
    S53 --- CO["CO→BR-C01: FOR A CONTAINER  
BR-C02: FOR A DOCUMENT  
C1→GR-C11"]
    S53 --> S54[INSERTS CORRELATION INFORMATION.]
    S54 --- CT2[CT2]
    S54 --> S55[PROCESS END.]

```

FIG. 5

EXAMPLE 1: REQ=GET_PROP&REQ_TYPE=DOCUMENT&DOC_ID=286

EXAMPLE 2: REQ=BROWSE&MY_CONT_ID=22

EXAMPLE 3: REQ=GET_REL&TYPE=DESTINATION&DOC_ID=100

F I G. 6

(a) DOCUMENT					
DOCUMENT ID	NAME	WRITER	WRITTEN DAY AND TIME		DOCUMENT SIZE
GR-A4	19 RUBY.doc	HIROBUMI JINNAI	2' 40' 08''	p.m. DECEMBER 21, 1999	300024
	22 asahi.htm	YOSHIYUKI ITO	8' 26' 33''	p.m. JANUARY 14, 2000	637
	24 EUC.htm	HIROBUMI JINNAI	8' 27' 49''	p.m. JANUARY 14, 2000	580
GR-A3	100 exe1500k.xls	HIROBUMI JINNAI	6' 51' 20''	a.m. JANUARY 16, 2000	2347
	286 DOCUMENT A	YOSHIYUKI ITO	2' 51' 00''	p.m. JANUARY 17, 2000	63
	287 DOCUMENT B	YOSHIYUKI ITO	2' 54' 13''	p.m. JANUARY 17, 2000	63

(b) CONTAINER	
CONTAINER ID	NAME
22	MY CONTAINER
25	CONTAINER A
30	CONTAINER B

(c) REFERENCE 1 (INDICATING CORRELATION BETWEEN A CONTAINER AND A DOCUMENT)	
CONTAINER ID	DOCUMENTATION ID
22	286
22	287

(d) REFERENCE 2 (INDICATING CORRELATION BETWEEN CONTAINERS)	
PARENT CONTAINER ID	CHILD CONTAINER ID
22	25
22	30

(e) RELATIONSHIP (INDICATING CORRELATION BETWEEN DOCUMENTS)				
PARENT DOCUMENT ID	CHILD DOCUMENT ID	COMMENT	STRENGTH	INCLUSION
100	19	COMMENTS PROVIDED	0	0
100	22	COMMENTS PROVIDED	0	0
100	24	COMMENTS PROVIDED	0	0

(f) PROPERTYDEF					
OBJECT ID	REPRESENTATIVE NAME	TYPE	READ FLAG	NECESSITY	MAXIMUM VALUE MINIMUM VALUE
DOCUMENT	1 DOCUMENT ID	0	1	1	
DOCUMENT	2 WRITER	1	1	1	32
DOCUMENT	3 WRITTEN DAY AND TIME	2	1	1	
DOCUMENT	5 NAME	1	0	1	255
DOCUMENT	6 ONLINE VERSION SIZE	1	1	1	
CONTAINER	1 NAME	0	0	1	255
CONTAINER	6 CONTAINER ID	1	1	1	
RELATIONSHIP	1 EXPLANATION	1	1	0	
RELATIONSHIP	2 STRENGTH	0	1	1	255
RELATIONSHIP	3 (NOT SUPPORTED)	0	1	1	

FIG. 7

REQUEST
REQ=GET_PROP
REQ_TYPE=DOCUMENT
DOC_ID=286

ACTUALLY GENERATED XML IS AS FOLLOWS.

PAY ATTENTION TO *.

CHARACTER STRINGS PUT BETWEEN ***** ARE EXPLANATION.

HERE, IT IS SET THAT ALL DOCUMENT PROPERTIES ARE REQUIRED.

ALTHOUGH THERE IS refDocument TAG BELOW CONTAINER IN THE PATENT, THE EQUIVALENT EXISTS BELOW success IN THIS REQUEST.

```

<?xml version="1.0" standalone="no">
<cardio version="1.1">
  <activeContainer key="" browseKey="" containerType="">
    <links>
      <link href="REQ=BROWSE" linkType="browse"/>
      <link href="REQ=GET_PROP&REQ_TYPE=CONT&DOC_ID=0" linkType="property"/>
      <link href="REQ=DELETE&REQ_TYPE=CONT&DOC_ID=0" linkType="delete"/>
    </links>
    </activeContainer>
    <results result="success">
      <success>
        <refDocuments>
          <refDocument key="286"/>
        </refDocuments>
      </success>
    </results>
    <links>
      <link href="REQ=EXEC_SCH" linkType="search"/>
      <link href="REQ=BROWSE" linkType="browse"/>
      <link href="REQ=GET_CONFIG&REQ_TYPE=BROWSE" linkType="custom:search"/>
      <link href="REQ=GET_CONFIG&REQ_TYPE=SQL" linkType="custom:searchresult"/>
      <link href="REQ=GET_SCH" linkType="storedsearch"/>
      <link href="REQ=GET_PROP&REQ_TYPE=USER" linkType="property"/>
      <link href="REQ=GET_PROP&REQ_TYPE=SYSTEM" linkType="system"/>
      <link href="REQ=GET_USERS&REQ_TYPE=USER" linkType="user:search"/>
      <link href="REQ=REFRESH" linkType="refresh"/>
      <link href="REQ=LOGOUT" linkType="logout"/>
    </links>
    <documents>
      <document key="286">
        <links>
          <link href="REQ=GET_CONTENT&REQ_TYPE=VER&DOC_ID=286" linkType="retr:ver"/>
          <link href="REQ=GET_PROP&REQ_TYPE=DOC&DOC_ID=286" linkType="property"/>
          <link href="REQ=GET_REL&DOC_ID=286" linkType="relationship"/>
          <link href="REQ=GET_PROP&REQ_TYPE=LOG&DOC_ID=286" linkType="log"/>
          <link href="REQ=DELETE&REQ_TYPE=DOC&DOC_ID=286" linkType="delete"/>
          <link href="REQ=UPDATE&REQ_TYPE=CHECK_IN&DOC_ID=286" linkType="checkin"/>
          <link href="REQ=UPDATE&REQ_TYPE=CHECK_OUT&DOC_ID=286" linkType="checkout"/>
        </links>
        <properties>
          <property object="document" propertyId="1" key="DOCUMENT_1"/>
          <property object="document" propertyId="2" key="DOCUMENT_2"/>
          <property object="document" propertyId="3" key="DOCUMENT_3"/>
          <property object="document" propertyId="5" key="DOCUMENT_5"/>
        </properties>
        <customProperties>
          <document>
            <documents>
              <propertyDef>
                <propertyDef object="document">
                  <propertyDef key="DOCUMENT_1" readOnly="true" required="true" object="document" propertyId="1" selected="browse" search="displayname" document ID/displayname"/>
                </propertyDef>
                <propertyDef>
                  <propertyDef key="DOCUMENT_2" readOnly="true" required="true" object="document" propertyId="2" selected="browse" by="displayname" written/displayname"/>
                </propertyDef>
                <propertyDef>
                  <propertyDef key="DOCUMENT_3" readOnly="true" required="true" object="document" propertyId="3" selected="sch" type="displayname" written DAY AND TIME/displayname"/>
                </propertyDef>
                <propertyDef>
                  <propertyDef key="DOCUMENT_5" readOnly="false" required="true" object="document" propertyId="5" selected="sch" type="displayname" written/displayname"/>
                </propertyDef>
              </documents>
            </document>
          </customProperties>
        </document>
      </document>
    </documents>
  </activeContainer>
  </cardio>

```

FIG. 8

(a) DOCUMENT

DOCUMENT ID	NAME	WRITER	WRITTEN DAY AND TIME	DOCUMENT SIZE
GR-A4	19 RUBY.doc	HIROBUMI JINNAI	2' 40' '08' ' ' p. m. DECEMBER 21, 1999	300024
	22 asahi.htm	YOSHIYUKI ITO	8' 26' '33' ' ' p. m. JANUARY 14, 2000	637
	24 EUC.htm	HIROBUMI JINNAI	8' 27' '49' ' ' p. m. JANUARY 14, 2000	580
GR-A3	100 exe1500k.xls	HIROBUMI JINNAI	6' 51' '20' ' ' a. m. JANUARY 16, 2000	2347
	286 DOCUMENT A	YOSHIYUKI ITO	2' 51' '00' ' ' p. m. JANUARY 17, 2000	63
	287 DOCUMENT B	YOSHIYUKI ITO	2' 54' '13' ' ' p. m. JANUARY 17, 2000	63

GP-A0

(b) CONTAINER

CONTAINER ID	NAME
22	MY CONTAINER
25	CONTAINER A
30	CONTAINER B

(c) REFERENCE 1 (INDICATING CORRELATION BETWEEN A CONTAINER AND A DOCUMENT)

CONTAINER ID	DOCUMENTATION ID
22	286
22	287

(d) REFERENCE 2 (INDICATING CORRELATION BETWEEN CONTAINERS)

PARENT CONTAINER ID	CHILD CONTAINER ID
22	25
22	30

(e) RELATIONSHIP (INDICATING CORRELATION BETWEEN DOCUMENTS)

PARENT DOCUMENT ID	CHILD DOCUMENT ID	COMMENT	STRENGTH	INCLUSION
100	19	COMMENTS PROVIDED	0	0
100	22	COMMENTS PROVIDED	0	0
100	24	COMMENTS PROVIDED	0	0

(f) PROPERTYDEF

OBJECT ID	NAME	TYPE	READ FLAG	NECESSITY	MAXIMUM VALUE	MINIMUM VALUE
DOCUMENT	1 DOCUMENT ID	0	1	1		
DOCUMENT	2 WRITER	1	1	1	32	
DOCUMENT	3 WRITTEN DAY AND TIME	2	1	1		
DOCUMENT	5 NAME	1	0	1	255	
DOCUMENT	6 ONLINE VERSION SIZE	1	1	1		
CONTAINER	1 NAME	0	0	1	255	
CONTAINER	6 CONTAINER ID	1	1	1		
RELATIONSHIP	1 EXPLANATION	1	1	0		
RELATIONSHIP	2 STRENGTH	0	1	1	255	
RELATIONSHIP	3 (NOT SUPPORTED)	0	1	1		

GP-B0

REQUEST
REQ=Browse
MY_CONT_ID=22

ACTUALLY GENERATED XML IS AS FOLLOWS.
CHARACTER STRINGS PUT BETWEEN ===== ARE EXPLANATION.
HERE, IT IS SET THAT DOCUMENT PROPERTIES DOCUMENT_1, DOCUMENT_2, DOCUMENT_3, CONTAINER PROPERTIES
CONTAINER_1 AND CONTAINER_5 ARE REQUIRED.

```

<?xml version="1.0" standalone="no"?>
<meridio version="1.1">
  <activeContainer keys="22" browseKey="22" containerType="My">
    <links>
      <link href="REQ-BROWSE&MY_CONT_ID=22" linkType="browse"/>
      <link href="REQ-GET_PROPL&REQ_TYPE=CONT&CONT_ID_0=22" linkType="property"/>
      <link href="REQ-DELETE&REQ_TYPE=CONT&CONT_ID_0=22" linkType="delete"/>
    </links>
    </activeContainer>
    <results result="success" aspire="true">
      <success>
        <refContainer key="22"/>
        </refContainer>
        </success>
      </results>
      <links>
        <link href="REQ-EXEC_SCH" linkType="search"/>
        <link href="REQ-BROWSE" linkType="browse"/>
        <link href="REQ-GET_CONF&REQ_TYPE=BROWSE" linkType="customizeBrowse"/>
        <link href="REQ-GET_CONF&REQ_TYPE=SCH" linkType="customizeSearch"/>
        <link href="REQ-GET_CONF&REQ_TYPE=SCH_RESULT" linkType="customizeSearchResult"/>
        <link href="REQ-GET_STORE" linkType="storeSearch"/>
        <link href="REQ-GET_PROPL&REQ_TYPE=USER" linkType="property"/>
        <link href="REQ-GET_PROPL&REQ_TYPE=SYSTEM" linkType="system"/>
        <link href="REQ-GET_USERGROUP" linkType="userGroupList"/>
        <link href="REQ-REP&REQ_TYPE=REP" linkType="rep"/>
        <link href="REQ-LOGOUT" linkType="logout"/>
      </links>
      <propertyDefinition>
        <fixedPropertyDefinition>
          <propertyDef object="document">
            <propertyDef key="DOCUMENT_1" readOnly="true" required="true" object="document" propertyId="1" selected="browse"
              <displayName>DOCUMENT ID</displayName>
            </propertyDef>
            <propertyDef key="DOCUMENT_2" readOnly="true" required="true" object="document" propertyId="2" selected="browse"
              <displayName>WRITER</displayName>
            </propertyDef>
            <propertyDef key="DOCUMENT_3" readOnly="true" required="true" object="document" propertyId="3" selected="browse"
              <displayName>ONLINE VERSION SIZE</displayName>
            </propertyDef>
            <propertyDef key="CONTAINER_1" readOnly="false" required="true" object="container" propertyId="1" selected="" type
              <displayName>NAME</displayName>
            </propertyDef>
            <propertyDef key="CONTAINER_5" readOnly="true" required="true" object="container" propertyId="5" selected="" type
              <displayName>CONTAINER ID</displayName>
            </propertyDef>
          </fixedPropertyDefinition>
          </propertyDefinition>
        </document>
        <document key="286">
          <links>
            <link href="REQ-GET_CONTENT&REQ_TYPE=VER&DOC_ID_0=286" linkType="retrieve"/>
            <link href="REQ-GET_PROPL&REQ_TYPE=DOC&DOC_ID_0=286" linkType="property"/>
            <link href="REQ-GET_REL&REQ_TYPE=DOC&DOC_ID_0=286" linkType="relationship"/>
            <link href="REQ-GET_PROPL&REQ_TYPE=LOCK&DOC_ID_0=286" linkType="lock"/>
            <link href="REQ-DELETE&REQ_TYPE=DOC&DOC_ID_0=286" linkType="delete"/>
            <link href="REQ-UPDATE&REQ_TYPE=CHECK_IN&DOC_ID_0=286" linkType="checkin"/>
            <link href="REQ-UPDATE&REQ_TYPE=CHECK_OUT&DOC_ID_0=286" linkType="checkout"/>
          </links>
          <properties>
            <property object="document" propertyId="1" key="DOCUMENT_1">286</property>
            <property object="document" propertyId="2" key="DOCUMENT_2">HSHYUKI</property>
            <property object="document" propertyId="3" key="DOCUMENT_3">63</property>
          </properties>
          </document>
          <document key="287">
            <links>
              <link href="REQ-GET_CONTENT&REQ_TYPE=VER&DOC_ID_0=287" linkType="retrieve"/>
              <link href="REQ-GET_PROPL&REQ_TYPE=DOC&DOC_ID_0=287" linkType="property"/>
              <link href="REQ-GET_REL&REQ_TYPE=DOC&DOC_ID_0=287" linkType="relationship"/>
              <link href="REQ-GET_PROPL&REQ_TYPE=LOCK&DOC_ID_0=287" linkType="lock"/>
              <link href="REQ-DELETE&REQ_TYPE=DOC&DOC_ID_0=287" linkType="delete"/>
              <link href="REQ-UPDATE&REQ_TYPE=CHECK_IN&DOC_ID_0=287" linkType="checkin"/>
              <link href="REQ-UPDATE&REQ_TYPE=CHECK_OUT&DOC_ID_0=287" linkType="checkout"/>
            </links>
            <properties>
              <property object="document" propertyId="1" key="DOCUMENT_1">287</property>

```

```

    <property object="document" propertyId="2" key="DOCUMENT_1">YOSHUYUKI ID</property>
    <property object="document" propertyId="6" key="DOCUMENT_6">63</property>
  </properties>
</document>
</documents>
containers
  container key="22" browseKey="22" active="true" opened="true" containerType="My"
    <links>
      <link href="REQ-BROWSE&mp;MY_CONT_ID=22" linkType="browse"/>
      <link href="REQ-GET_PROP&mp;REQ_TYPE=CONT&mp;CONT_ID=22" linkType="property"/>
      <link href="REQ-DELETE&mp;REQ_TYPE=CONT&mp;CONT_ID=22" linkType="delete"/>
    </links>
    <properties>
      <property object="container" propertyId="1" key="CONTAINER_1">MY CONTAINER</property>
      <property object="container" propertyId="6" key="CONTAINER_6">22</property>
    </properties>
  </containers>
  container key="25" browseKey="22-25" active="false" opened="false" containerType="My"
    <links>
      <link href="REQ-BROWSE&mp;MY_CONT_ID=22-25" linkType="browse"/>
      <link href="REQ-GET_PROP&mp;REQ_TYPE=CONT&mp;CONT_ID=25" linkType="property"/>
      <link href="REQ-DELETE&mp;REQ_TYPE=CONT&mp;CONT_ID=25" linkType="delete"/>
    </links>
    <properties>
      <property object="container" propertyId="1" key="CONTAINER_1">CONTAINER A</property>
      <property object="container" propertyId="6" key="CONTAINER_6">25</property>
    </properties>
  </containers>
  container key="30" browseKey="22-30" active="false" opened="false" containerType="My"
    <links>
      <link href="REQ-BROWSE&mp;MY_CONT_ID=22-30" linkType="browse"/>
      <link href="REQ-GET_PROP&mp;REQ_TYPE=CONT&mp;CONT_ID=30" linkType="property"/>
      <link href="REQ-DELETE&mp;REQ_TYPE=CONT&mp;CONT_ID=30" linkType="delete"/>
    </links>
    <properties>
      <property object="container" propertyId="1" key="CONTAINER_1">CONTAINER B</property>
      <property object="container" propertyId="6" key="CONTAINER_6">30</property>
    </properties>
  </containers>
  </containers>
  </documents>
  <refDocuments>
    <refDocument key="286"/>
    <refDocument key="287"/>
  </refDocuments>
</container>
</containers>
</zardid>

```

AT1 [→ BR-A2

AT2 → BR-A1

CT1 [→ BR-A2

AT2 → BR-A2

CT1 [→ BR-C02

AT1 [

FIG. 11

(a) DOCUMENT					
DOCUMENT ID	NAME	WRITER	WRITTEN DAY AND TIME	DOCUMENT SIZE	
GR-A4	19 RUBY.doc	HIROBUMI JINNAI	2' 40' '08' ' ' p. m. DECEMBER 21, 1999	300024	
	22 asahi.htm	YOSHIYUKI ITO	8' 26' '33' ' ' p. m. JANUARY 14, 2000	637	
GR-A3	24 EUC.htm	HIROBUMI JINNAI	8' 27' '49' ' ' p. m. JANUARY 14, 2000	580	
	100 exe1500k.xls	HIROBUMI JINNAI	6' 51' '20' ' ' a. m. JANUARY 16, 2000	2347	
	286 DOCUMENT A	YOSHIYUKI ITO	2' 51' '00' ' ' p. m. JANUARY 17, 2000	63	
	287 DOCUMENT B	YOSHIYUKI ITO	2' 54' '13' ' ' p. m. JANUARY 17, 2000	63	

(b) CONTAINER	
CONTAINER ID	NAME
22	MY CONTAINER
25	CONTAINER A
30	CONTAINER B

BR-A2

(c) REFERENCE 1 (INDICATING CORRELATION BETWEEN A CONTAINER AND A DOCUMENT)

CONTAINER ID	DOCUMENTATION ID	
22	286	BR-CO (CORRELATION)
22	287	BR-CO (CORRELATION)

(d) REFERENCE 2 (INDICATING CORRELATION BETWEEN CONTAINERS)

PARENT CONTAINER ID	CHILD CONTAINER ID	
22	25	BR-CO (CORRELATION)
22	30	BR-CO (CORRELATION)

(e) RELATIONSHIP (INDICATING CORRELATION BETWEEN DOCUMENTS)

PARENT DOCUMENT ID	CHILD DOCUMENT ID	COMMENT	STRENGTH	INCLUSION
100	19	COMMENTS PROVIDED	0	0
100	22	COMMENTS PROVIDED	0	0
100	24	COMMENTS PROVIDED	0	0

(f) PROPERTYDEF

OBJECT ID	NAME	TYPE	READ FLAG	NECESSITY	MAXIMUM VALUE	MINIMUM VALUE
DOCUMENT	1 DOCUMENT ID	0	1	1	32	
DOCUMENT	2 WRITER	1	1	1		
DOCUMENT	3 WRITTEN DAY AND TIME	2	1	1		
DOCUMENT	5 NAME	1	0	1	255	
DOCUMENT	6 ONLINE VERSION SIZE	1	1	1		
CONTAINER	1 NAME	0	0	1	255	
CONTAINER	6 CONTAINER ID	1	1	1		
RELATIONSHIP	1 EXPLANATION	1	1	0	255	
RELATIONSHIP	2 STRENGTH	0	1	1		
RELATIONSHIP	3 (NOT SUPPORTED)	0	1	1		

GP-B1

FIG. 12

REQUEST
REQ=SET_REL
TYPE=DESTINATION
DOC_ID=100
ACTUALLY GENERATED XML IS AS FOLLOWS.
IT IS SET HERE THAT DOCUMENT PROPERTIES DOCUMENT_1 AND DOCUMENT_5 ARE REQUIRED.

```

<?xml version="1.0" standalone="no"?>
<meridio version="1.1">
  <activeContainer key="browseKey" containerType="">
    <links>
      <link href="REQ-BROWSE" linkType="browse"/>
      <link href="REQ-GET_PROP&REQ_TYPE=CONT&REQ_CONF_ID_0=" linkTypes="property"/>
      <link href="REQ-DELETE&REQ_TYPE=CONT&REQ_CONF_ID_0=" linkTypes="delete"/>
    </links>
  </activeContainer>
  <results result="success" expire="false">
    <success>
      <refDocument>
        <refDocument key="100"/>
      </refDocument>
    </success>
  </results>
  <links>
    <link href="REQ-EXEC_SCH" linkType="search"/>
    <link href="REQ-BROWSE" linkType="browse"/>
    <link href="REQ-GET_CONF&REQ_TYPE=BROWSE" linkTypes="custom subrowse"/>
    <link href="REQ-GET_CONF&REQ_TYPE=SCH" linkTypes="customiseSearchResult"/>
    <link href="REQ-GET_CONF&REQ_TYPE=SCH_RESULT" linkTypes="customiseSearchResult"/>
    <link href="REQ-GET_SCH" linkTypes="storeSearch"/>
    <link href="REQ-GET_PROP&REQ_TYPE=SYSTEM" linkTypes="system"/>
    <link href="REQ-GET_USERGROUP" linkTypes="usergroupList"/>
    <link href="REQ-REFRESH=true" linkTypes="refresh"/>
    <link href="REQ-LOGOUT" linkTypes="logout"/>
  </links>
  <propertyDefinition>
    <fixedPropertyDefinition>
      <propertyDef key="DOCUMENT_1" readOnly="true" required="true" object="document" propertyId="1" selected="browse" show="displayName" DOCUMENT_ID/displayName>
        </propertyDef>
      <propertyDef key="DOCUMENT_5" readOnly="false" required="true" object="document" propertyId="5" selected="sch" type="displayName" DESCRIPTION/displayName>
        </propertyDef>
    </fixedPropertyDef>
    <propertyDef>
      <propertyDef key="RELATIONSHIP_1" readOnly="true" required="false" object="relationship" propertyId="1" selected="" show="displayName" EXPLANATION/displayName>
        </propertyDef>
      <propertyDef key="RELATIONSHIP_2" readOnly="true" required="true" object="relationship" propertyId="2" selected="" show="displayName" EXPLANATION/displayName>
        </propertyDef>
      <propertyDef key="RELATIONSHIP_3" readOnly="true" required="true" object="relationship" propertyId="3" selected="" show="displayName" NOT_SUPPORTED/displayName>
        </propertyDef>
    </propertyDef>
  </fixedPropertyDefinition>
  </propertyDefinition>
  <document key="19">
    <links>
      <link href="REQ-GET_CONTENT&REQ_TYPE=VER&REQ_DOC_ID_0=19" linkType="retrieve"/>
      <link href="REQ-GET_PROP&REQ_TYPE=DOC&REQ_DOC_ID_0=19" linkTypes="property"/>
      <link href="REQ-GET_REL&REQ_TYPE=DOC&REQ_DOC_ID_0=19" linkTypes="relationship"/>
      <link href="REQ-GET_PROP&REQ_TYPE=LOCK&REQ_DOC_ID_0=19" linkTypes="lock"/>
      <link href="REQ-DELETE&REQ_TYPE=DOC&REQ_DOC_ID_0=19" linkTypes="delete"/>
      <link href="REQ-UPDATE&REQ_TYPE=CHECK_IN&REQ_DOC_ID_0=19" linkTypes="checkin"/>
      <link href="REQ-UPDATE&REQ_TYPE=CHECK_OUT&REQ_DOC_ID_0=19" linkTypes="checkout"/>
    </links>
    <properties>
      <property object="document" propertyId="1" key="DOCUMENT_ID">19</property>
      <property object="document" propertyId="5" key="DOCUMENT_ID">19</property>
    </properties>
  </document>
  <document key="22">
    <links>
      <link href="REQ-GET_CONTENT&REQ_TYPE=VER&REQ_DOC_ID_0=22" linkTypes="retrieve"/>
      <link href="REQ-GET_PROP&REQ_TYPE=DOC&REQ_DOC_ID_0=22" linkTypes="property"/>
      <link href="REQ-GET_REL&REQ_TYPE=DOC&REQ_DOC_ID_0=22" linkTypes="relationship"/>
      <link href="REQ-GET_PROP&REQ_TYPE=LOCK&REQ_DOC_ID_0=22" linkTypes="lock"/>
      <link href="REQ-DELETE&REQ_TYPE=DOC&REQ_DOC_ID_0=22" linkTypes="delete"/>
      <link href="REQ-UPDATE&REQ_TYPE=CHECK_IN&REQ_DOC_ID_0=22" linkTypes="checkin"/>
      <link href="REQ-UPDATE&REQ_TYPE=CHECK_OUT&REQ_DOC_ID_0=22" linkTypes="checkout"/>
    </links>
    <properties>
      <property object="document" propertyId="1" key="DOCUMENT_ID">22</property>
      <property object="document" propertyId="5" key="DOCUMENT_ID">22</property>
    </properties>
  </document>

```

FIG. 13

```

</properties>
</document>
<document key="24">
  <links>
    <link href="REQ-GET_CONTENT&REQ_TYPE=VER&DOC_ID_0=24" linkType="retrieve"/>
    <link href="REQ-GET_PROP&REQ_TYPE=DOC&DOC_ID_0=24" linkType="property"/>
    <link href="REQ-GET_REL&DOC_ID_0=24" linkType="relationship"/>
    <link href="REQ-GET_PROP&REQ_TYPE=LOCK&DOC_ID_0=24" linkType="lock"/>
    <link href="REQ-DELETE&REQ_TYPE=DOC&DOC_ID_0=24" linkType="delete"/>
    <link href="REQ-UPDATE&REQ_TYPE=CHECK_IN&DOC_ID_0=24" linkType="checkin"/>
    <link href="REQ-UPDATE&REQ_TYPE=CHECK_OUT&DOC_ID_0=24" linkType="checkout"/>
  </links>
  <properties>
    <property object="document" propertyId="1" key="DOCUMENT" >24</property>
    <property object="document" propertyId="5" key="DOCUMENT" >REQ.htm</property>
  </properties>
</document>
<document key="100">
  <links>
    <link href="REQ-GET_CONTENT&REQ_TYPE=VER&DOC_ID_0=100" linkType="retrieve"/>
    <link href="REQ-GET_PROP&REQ_TYPE=DOC&DOC_ID_0=100" linkType="property"/>
    <link href="REQ-GET_REL&DOC_ID_0=100" linkType="relationship"/>
    <link href="REQ-GET_PROP&REQ_TYPE=LOCK&DOC_ID_0=100" linkType="lock"/>
    <link href="REQ-DELETE&REQ_TYPE=DOC&DOC_ID_0=100" linkType="delete"/>
    <link href="REQ-UPDATE&REQ_TYPE=CHECK_IN&DOC_ID_0=100" linkType="checkin"/>
    <link href="REQ-UPDATE&REQ_TYPE=CHECK_OUT&DOC_ID_0=100" linkType="checkout"/>
  </links>
  <properties>
    <property object="document" propertyId="1" key="DOCUMENT" >100</property>
    <property object="document" propertyId="5" key="DOCUMENT" >execISOOK.klk</property>
  </properties>
</document>
<destinationDocument>
  <refDocument key="19"/>
  <relationship destinationKey="19">
    <links>
      <link href="REQ-DELETE&REQ_TYPE=REL&DOC_ID_0=100&DESTINATION_DOC_ID=19" linkType="delete"/>
    </links>
    <properties>
      <property object="relationship" propertyId="1" key="RELATIONSHIP" >COMMENTS PROVIDED</property>
      <property object="relationship" propertyId="2" key="RELATIONSHIP" >24</property>
      <property object="relationship" propertyId="3" key="RELATIONSHIP" >24</property>
    </properties>
  </relationship>
</destinationDocument>
<destinationDocument>
  <refDocument key="22"/>
  <relationship destinationKey="22">
    <links>
      <link href="REQ-DELETE&REQ_TYPE=REL&DOC_ID_0=100&DESTINATION_DOC_ID=22" linkType="delete"/>
    </links>
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  <relationship destinationKey="24">
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    </links>
    <properties>
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      <property object="relationship" propertyId="2" key="RELATIONSHIP" >24</property>
      <property object="relationship" propertyId="3" key="RELATIONSHIP" >24</property>
    </properties>
  </relationship>
</destinationDocument>
</documents>
</merdiox>

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AT2

GR-A4

CT1C

GR-A3

GR-C11

CT1C

AT2C

AT1

FIG. 14

(a) DOCUMENT					
DOCUMENT ID	NAME	WRITER	WRITTEN DAY AND TIME	DOCUMENT SIZE	
GR-A4	19 RUBY.doc	HIROBUMI JINNAI	2' 40' '08'' p.m. DECEMBER 21, 1999	300024	
	22 asahi.htm	YOSHIYUKI ITO	8' 26' '33'' p.m. JANUARY 14, 2000	637	
	24 EUC.htm	HIROBUMI JINNAI	8' 27' '49'' p.m. JANUARY 14, 2000	580	
GR-A3	100 exe1500k.xls	HIROBUMI JINNAI	6' 51' '20'' a.m. JANUARY 16, 2000	2347	
	286 DOCUMENT A	YOSHIYUKI ITO	2' 51' '00'' p.m. JANUARY 17, 2000	63	
	287 DOCUMENT B	YOSHIYUKI ITO	2' 54' '13'' p.m. JANUARY 17, 2000	63	

(b) CONTAINER	
CONTAINER ID	NAME
22	MY CONTAINER
25	CONTAINER A
30	CONTAINER B

(c) REFERENCE 1 (INDICATING CORRELATION BETWEEN A CONTAINER AND A DOCUMENT)	
CONTAINER ID	DOCUMENTATION ID
22	286
22	287

(d) REFERENCE 2 (INDICATING CORRELATION BETWEEN CONTAINERS)	
PARENT CONTAINER ID	CHILD CONTAINER ID
22	25
22	30

(e) RELATIONSHIP (INDICATING CORRELATION BETWEEN DOCUMENTS)				
PARENT DOCUMENT ID	CHILD DOCUMENT ID	COMMENT	STRENGTH	INCLUSION
100	19	COMMENTS PROVIDED	0	0
100	22	COMMENTS PROVIDED	0	0
100	24	COMMENTS PROVIDED	0	0

GR-C1
(CORRELATION)

(f) PROPERTYDEF					
OBJECT ID	NAME	TYPE	READ FLAG	NECESSITY	MAXIMUM VALUE
DOCUMENT	1 DOCUMENT ID	0	1	1	
DOCUMENT	2 WRITER	1	1	1	32
DOCUMENT	3 WRITTEN DAY AND TIME	2	1	1	
DOCUMENT	5 NAME	1	0	1	255
DOCUMENT	6 ONLINE VERSION SIZE	1	1	1	
CONTAINER	1 NAME	0	0	1	255
CONTAINER	6 CONTAINER ID	1	1	1	
RELATIONSHIP	1 EXPLANATION	1	1	0	
RELATIONSHIP	2 STRENGTH	0	1	1	255
RELATIONSHIP	3 (NOT SUPPORTED)	0	1	1	

GP-B2

FIG. 15